A.S 28/3/19.

P.W.G. 17 — Original/Duplicate/Triplicate

2nd and part Bill

CONTRACT CERTIFICATE

Reference paras 158 & 170

NO

AEE, YSTSD

Division Yelahanka — Sub division Yelahanka New Town — SBR No: 45 — Date 28-19

Bills received No II & final Bill — Date YNK-DBR No. 126 Date 30.03.19 — Sub-divisional / Divisional — Cash book vr No — Date: Date 23/3/2019

Sheduled Docket No — Head of account P-1771

Name of work(as per sanctioned estimate): **NAME OF WORK :Maintenance of pump and motors in ward no 03**

Work Code:003-18-000054

Name of contractor and full address :- **Sri C Raju**

Reference to agreement No :- 18 — **Estimated cost : 25.00** — **Work order No :18, dt:07/08/2018**

Certified that the measurments were taken by me on 21/3/2019 and recorded on pages 117809 to _____ of measurment book No 1179/2018-19 and the work is satisfactorily executed by the contractor.

Signature of contractor — Asst. Engineer 21/3/2019

Certified that the measurments were taken by me on 21/03/19 and recorded correct.The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of account II have been actualy brought to site of work and the contractor has not previously received any advance on this security. These materials are of any imperishable nature and are all required by the contractor for immidiate use on the work in connection with items for which rates finished work have been agreed upon.A formal agreement signed and executed by the contractor is recorded in divisional office.

ಸಹಾಯಕ ಕಾರ್ಯ ಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪವಿಭಾಗ.
Divisional Officer
ಜ.ಜ.ಎಂ.ಕ. ಬೆಂಗಳೂರು-106

21/3/19

II MEMORANDUM OF PAYMENT

	Total Amount	2423368=00
1) Total value of work done or supplies as per A/c within	I & II part	1209013=00
2) Deduct amount to be held in reserve being----percent Rs----------%--------		
3) Balance	II & final -	1214355=00
4) Deduct payments		
a) Amount of previous payment as in divisional/sub divisional cash book vr No----------dated----------S.D No----------Amount	CGST	10842=00
	SGST	10842=00
b) Cost of payments/stores or other materials supplied now made recovery of Amount paid on this bill by cheque/cash	IT	12144=00
	LC	12144=00
Total	CAT	1215=00
5) Balance being unpaid value of work done held in reserve		
6) Deduct cash of advance made on divisional/sub divisional cash book	I D	47187=00
7) Net amount due to or from contractor.		
UN ADJUSTED ITEMS	Ca Amount	1167168=00
8) Advance to contractor for materials to site(as detailed within)		
9) Value of government materials supplied		
TOTAL AMOUNT UN-ADJUSTED		

Contractor's signatures

Received Rs----------(in words)----------

For use in the Executive Engineer's office----------

of payment as per memorandum
(in final settlement of all demand)

Witness
1)
2)

Reciept Stamp

Dated signature of contractor
paid by me cheque No dated

Cash Rs .....

Date — Initials of officer making payment — Date

Audited & Admitted for Rs 1214355=00

1167168=00 by Cheque

and Rs 47187=00 by adjusement

Asst. Superintendent
Yelahanka Division

Executive Engineer

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
1	2	3	4	5	6	7	8	9	10
1	Lifting of Submersible pump set **(P.40/I.13) PRED SR (2013-14) P-56 I.No 3.21**	No.	40.00	32980.00	20.00	824.50	16490.00	60.00	49470.00
2	Transportation of pumping machineries PRED SR For 2012-13 **(P.41/I.14)PRED SR (2013-14) P.No 56 Item No 10-3-19**	No.	40.00	34920.00	20.00	873.00	17460.00	60.00	52380.00
3	**A) Repairs to Motor:** Rewinding of submersible pump sets with copper insulation wire of suitable gauge as per ISI specification with guarantee of 6 months. **PRED SR (2013-14) P No. 54/ I. No. A) (Above 5 HP upto 10HP add Rs.120/- for every ½ HP)**	No.							
	B) 10 HP Motor		40.00	143560.00	20.00	3589.00	71780.00	60.00	215340.00
	upto 5 HP 2500.00								
	for 10 HP (120 x 10) 1200.00								
	Total 3700								
	111.00								
	3811.00								
	B) Replacement of Motor Parts:								
4	Stator (with one year Guarantee) **P No. 55/ I No. C(1) PRED SR (2012-13) 10.3.3**	No.	40.00	195940.00	20.00	4898.50	97970.00	60.00	293910.00
5	Rotor (with one year Guarantee) **P No. 55/ I No. C(2) PRED SR (2013-14) 10.3.6**	No.	30.00	136770.00	30.00	4559.00	136770.00	60.00	273540.00
6	Upper Flange **P. No. 40 / I No. 10.3.7 PRED SR (2013-14)**	No.	35.00	11883.00	25.00	339.50	8487.50	60.00	20370.00
7	Lower Housing **P. No. 55 / I No.10.3.10PRED SR (2013-14)**	No.	30.00	18915.00	30.00	630.50	18915.00	60.00	37830.00
8	Lower flange **P. No. 40 / I No.5 PRED SR (2008-09)**	No.	40.00	13580.00	20.00	339.50	6790.00	60.00	20370.00
9	a) Carbon Housing **P. No. 56 / I No.10.3.12 PRED SR (2012-13)**	No.	35.00	16126.00	25.00	460.75	11518.75	60.00	27645.00

Sl. No.	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
	Thrust bearing block assembly complete with Segment bearing pad.**P. No. 40 / I No10.3.13PRED SR (2012-13**	No.	40.00	44620.00	20.00	1115.50	22310.00	60.00	66930.00
11	c)Top Carbon /Ferrodo padding **P. No. 56 / I No. PRED SR (2012-13)**	No.	40.00	5820.00	20.00	145.50	2910.00	60.00	8730.00
12	Bearing (GunMetal) Centrifugal cast Aluminium Bronze, bearing bush. **P. No. 56/ I No10.3.16 PRED SR (2013-14)**	No.	38.00	14744.00	22.00	388.00	8536.00	60.00	23280.00
13	Motor Base with pin **P. No. 56 / I No.10.3.18 PRED SR (2013-14)**	No.	40.00	18236.00	20.00	455.90	9118.00	60.00	27354.00
14	Re-erection charges of pumping machineries including overhauling and painting **P. No. 56 / I No.50 PRED SR (2013-14)**	No.	40.00	36860.00	20.00	921.50	18430.00	60.00	55290.00
15	Labour charges (overhauling only) **P. No. 55/ I No.10.3.22 PRED SR (2012-13)**	No.	40.00	21340.00	20.00	533.50	10670.00	60.00	32010.00
	C) Replacement of pump parts: The following main components of submersible pump sets requiring replacement.								
16	Pump Bowls P. No. 54 / I No.10.2.1 PRED SR (2013-14	No.	35.00	23765.00	25.00	679.00	16975.00	60.00	40740.00
17	Intermediate piece (I.P) with IP leaded bronze bush **P. No. 54 / I No10.2.2 PRED SR (2012-13)**	No.	40.00	17460.00	20.00	436.50	8730.00	60.00	26190.00
18	Oil Seal P. No. 39 / I No.B3 PRED SR (2008-09)	No.	40.00	4850.00	20.00	121.25	2425.00	60.00	7275.00
19	Oil Seal Steel Bush **P. No. 54/ I No.10.24 PRED SR (2012-13)**	No.	40.00	5820.00	20.00	145.50	2910.00	60.00	8730.00
20	Guide vane P. No. 54 / I No.10.2.5 PRED SR (2012-13)	No.	40.00	6790.00	20.00	169.75	3395.00	60.00	10185.00

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
21	Impeller (Shell moulded with aluminium and Bronze) **P. No. 54/ I No.10.2.70 PRED SR (2012-13)**	No.	40.00	16490.00	20.00	412.25	8245.00	60.00	24735.00
22	a) Discharge outlet (D.O) Bearing D.O Steel Bush **P. No.54 / I No.10.2.70 RDED SR (2012-13)**	No.	35.00	15108.00	25.00	431.65	10791.25	60.00	25899.00
23	b) D.O Bearing **P. No. 54 / I No.10.2.8 PRED SR (2012-13)**	No.	40.00	11058.00	20.00	276.45	5529.00	60.00	16587.00
24	Steel Bush (D.O.Steel bush) **P. No. 54 / I No.A710.2.9 PRED SR (2012-13)**	No.	40.00	5820.00	20.00	145.50	2910.00	60.00	8730.00
25	Allen Screw **P. No. 55 / I No.8 PRED SR (2012-13)**	No.	40.00	970.00	20.00	24.25	485.00	60.00	1455.00
26	Pump shaft made out of stainless steel Centreless ground with key way (upto 8 stages) **P. No. 55/ I No.10.2.11 PRED SR (2013 14))**	No.	40.00	36860.00	20.00	921.50	18430.00	60.00	55290.00
27	Pump key (Stainless steel) **P. No. 55 / I No.10.2.12 PRED SR (2012-13))**	No.	30.00	3638.00	30.00	121.25	3637.50	60.00	7275.00
28	Pump Coupling (Stainless steel) **P. No. 55/ I No.10.2.13PRED SR (2012-13)**	No.	40.00	9700.00	20.00	242.50	4850.00	60.00	14550.00
29	Non – return valve (NRV) assembly complete with rubber 'O' Ring **P. No. 55 / I No.10.2.14PRED SR (2012-13)**	No.	36.00	47142.00	14.00	1309.50	18333.00	50.00	65475.00
30	Cable Guard **P. No.55 / I No.10.2.15 PRED SR (2012 13)**	No.	40.00	5820.00	20.00	145.50	2910.00	60.00	8730.00
31	Strainer **P. No. 55 / I No.10.2.16 PRED SR (2012 13)**	No.	40.00	5820.00	20.00	145.50	2910.00	60.00	8730.00
32	Brass Filter **P. No. 55 / I No.10.2.17) PRED SR (2012-13)**	No.	40.00	9700.00	20.00	242.50	4850.00	60.00	14550.00

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
33	Supplying and fixing miniature circuit breakers/solaters on existing MCB distribution boards using necessary fixing materiasl wiring complete as requireds 5 to 30 amps triple pole with all lead and lift, loading, unloading and labour charges etc complete as per specifications	No.	25.00	24250.00	5.00	970.00	4850.00	30.00	29100.00
34	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cutouts and other equipments on the meter board using 40 mm dia 2.90 mm thick GI pipe 2.5 m long buried in a pit. The pit should be filled with equal propotion of solt and charocoal 150 mm alround the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size, as per ISI specification 7.3.3 IS 732 using 12 mm dia bolts, nuts, washers and check nuts, etc., the pipe shall have 16 throught holes of 122 mm dia, (PWD Electrical SR-1999-2000, P-66, I.No.7) KPWD Electrical SR 2007-08	No.	30.00	56745.00	10.00	1891.50	18915.00	40.00	75660.00

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
35	Supplying of ISI marked galvanized mild steel tube (continously welded electric resistance welded (ERW) high frequency, induction welded (HFIW) Hot finished welded type of nominal bore given below screwed at both ends as per IS 554/1986 with latest amendments, pipes threaftes at one end and the other end protected asper specification in random lengths of 4 to 7 mtrs Confirming to IS 1239 part I/1990 with amendament 1-5 and with all its latest amendements if any. The pipes supplied should be with BIS mark No 3/08-09 2406/15.10.2008. 50 mm dia including Collar Heavy Class 2016-17, P-90, i.no13.15	No.	216.00	90303.00	384.00	418.07	160538.88	600.00	250842.00
36	GI Collers	No.	50.00	4850.00	70.00	97.00	6790.00	120.00	11640.00
37	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 Volts. P. No. 46/ I No. 30-B 4.0 Sqm mm of 36 strands 0.3mm dia Group - A KPWD Electrical SR 2007-08 3/2008-09 4538/19.01.2009 (1x3x4.00 Sqmm PVC cable)	mtr	408.00	59760.00	1192.00	146.47	174592.24	1600.00	234352.00

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
38	KSRB 2-2.2 : Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m, and above in width, in hard soil not exceeding 1.5m , in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. specification, specification. No. KBS 2.1(b) / 2.3.5, No. 5/ Item No. 2.4/ PWD SR 2016-17	Cum			320.00	322.90	103328.00	320.00	103328.00
39	Providing and instalation at site of works P.V.C. Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc., Page No.3 item No.4.2 PRE SR 2016-17	Cum			800.00	156.86	125488.00	800.00	125488.00
40	KSRB 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50mm, and lift upto 1.5m, including cost of all labour complete as per specifications, No. 6/ Item No. 2.11/ PWD SR 2016-17	Cum			320.00	74.03	23689.60	320.00	23689.60

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement Qty	Previous Measurement Cost	Present Measurement Qty	Present Measurement Rate	Present Measurement Amount	Total Up to date Qty	Total Up to date Cost
41	Labour charges for attending to repairs of the P.V.C pipes by earth work excavation, cutting the old pipe, installation and jointing of new pipes to the existing old pipe to the depth, line and level, perfect linking at joints including encasing the pipes alround to a depth of not less than 15 cm with earth available and refilling the excavated trenches giving satisfactory hydraulic test et., complete (Excluding the cost of materials) **(P.6/I.9 PRED SR - 2016-17)**	Each			135.00	145.87	19692.45	135.00	19692.45
				1209013.00	TOTAL		1214355.17		2423377.05

2423368=0

Ward no 03
Assistant Engineer
21/3/2019

21/3
Assistant Executive Engineer
Yelahanka Satellite Town Sub Division
BBMP, Bangalore